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EXAMINER

NOTICE OF ALLOWANCE AND FEE(S) DUE

58467

7500

02/01/2010

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PHAM, KHANH B

MHKKG/SUN P.O. BOX 398 AUSTIN, TX 78767

ART UNIT

PAPER NUMBER

2166 DATE MAILED: 02/01/2010

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/618,810	07/14/2003	Ajay Kumar	5681-15200	5782	

TITLE OF INVENTION: READ/WRITE LOCK TRANSACTION MANAGER FREEZING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/03/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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58467 MHKKG/SUN P.O. BOX 398 AUSTIN, TX 78	/2010	I S S	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimila transmitted to the USPTO (571) 273-2885, on the date indicated below.						
			[(Depositor's name)
									(Signature)
			L						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		ATTO	RNEY DOCKET NO.	CONF!	IRMATION NO.
10/618,810 TITLE OF INVENTION	07/14/2003 v: READ/WRITE LOCK	TRANSACTION MANA	Ajay Kumar AGER FREEZING				5681-15200		5782
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	T	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810		05/03/2010
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CFR 1.363). Change of corresp Address form PTO/S "Fee Address" inc PTO/SB/47; Rev 03-t Number is required 3. ASSIGNEE NAME A PLEASE NOTE: Un	AND RESIDENCE DATA	ange of Correspondence	data will appear on th	p to anative ingle or agattorial be per type it type it pate	3 registered patentially, firm (having as a gent) and the nameneys or agents. If a printed.	memb es of u	er a 2 p to le is 3	ocument	has been filed for
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10/618,810	07/14/2003	Ajay Kumar	5681-15200	5782		
58467 7590 02/01/2010			EXAMINER			
MHKKG/SUN			PHAM, KHANH B			
P.O. BOX 398			ART UNIT	PAPER NUMBER		
AUSTIN, TX 7876	ο/		2166			
		DATE MAILED: 02/01/2010				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1520 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1520 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/618,810	KUMAR ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Khanh B. Pham	2166	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS . This application is and MPEP 1308.	in this application. If not included nunication will be mailed in due cours	se. THIS
2. \square The allowed claim(s) is/are <u>1,3-11 and 13-58</u> .			
 Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" 	been received. been received in Applicat cuments have been receive	ion No ed in this national stage application fi	
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EX		E OF
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date 	on's Patent Drawing Revie s Amendment / Comment o	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the first of the deposit of t	he header according to 37 C sit of BIOLOGICAL MAT	FR 1.121(d). TERIAL must be submitted. Note t	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 7. ☑ Examiner'	nformal Patent Application Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allowand	ce

Art Unit: 2166

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Robert C. Kowert, Applicant's Representative, on January 27, 2010.

The application has been amended as follows:

In the claims:

Claims 21, 30, 39 and 48 have been amended as follows:

21. (Currently amended) A method, comprising:

using one or more computers to perform:

receiving a pause request in regard to one or more atomic transactions initiated by one or more applications, wherein each of the one or more atomic transactions comprises requests to access one or more data sources, wherein the one or more atomic transactions are managed by a transaction manager configured to control state changes of the one or more atomic transactions initiated by the one or more applications, wherein for each given atomic transaction, the transaction manager is configured to request permission to change the state of the given atomic transaction, wherein the transaction manager is configured to not change the state of a given atomic transaction without said permission;

Art Unit: 2166

pausing [[a]] the transaction manager in response to the pause request by withholding permission to change the state of the one or more atomic transactions managed by the transaction manager;

receiving a plurality of resume request[[s]]; and

resuming the transaction manager in response to the resume request by granting permission to the transaction manager to change the state of the one or more atomic transactions managed by the transaction manager.

30. (Currently amended) A method, comprising:

using one or more computers to perform:

receiving a pause request in regard to one or more atomic transactions initiated by one or more applications, wherein each of the one or more atomic transactions comprises requests to access one or more data sources, wherein the one or more atomic transactions are managed by a transaction manager configured to control state changes of the one or more atomic transactions initiated by the one or more applications, wherein for each given atomic transaction, the transaction manager is configured to request a read lock on a stored transaction, wherein the transaction manager is configured

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to not change the state of a given atomic transaction without said read lock;

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pausing [[a]] the transaction manager in response to the pause request by withholding the read lock[[s]] on [[a]] the stored transaction freeze object that identifies a respective atomic transaction;

receiving a resume request; and

resuming the transaction manager in response to the resume request by granting the read lock[[s]] on the stored transaction freeze object that identifies the respective atomic transaction.

39. (Currently amended) A computer readable storage medium storing program instructions, wherein the program instructions are computer-executable to:

receive a pause request in regard to one or more atomic transactions initiated by one or more applications, wherein each of the one or more atomic transactions comprises requests to access one or more data sources, wherein the one or more atomic transactions are managed by a transaction manager configured to control state changes of the one or more atomic transactions initiated by the one or more applications, wherein for each given atomic transaction, the transaction manager is configured to request permission to change the state of the given atomic transaction, wherein the transaction manager is configured to not change the state of a given atomic transaction without said permission;

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pause [[a]] the transaction manager in response to the pause request by withholding permission to change the state of the one or more atomic transactions managed by the transaction manager;

receive a resume request; and

resume the transaction manager in response to the resume request by granting permission to the transaction manager to change the state of the one or more atomic transactions managed by the transaction manager.

48. (Currently amended) A computer readable storage medium storing program instructions, wherein the program instructions are computer-executable to:

one or more applications, wherein each of the one or more atomic transactions comprises requests to access one or more data sources, wherein the one or more atomic transactions are managed by a transaction manager configured to control state changes of the one or more atomic transactions initiated by the one or more applications, wherein for each given atomic transaction, the transaction manager is configured to request a read lock on a stored transaction freeze object to change the state of the given atomic transaction, wherein the transaction manager is configured to not change the state of a given atomic transaction without said read lock;

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pause [[a]] the transaction manager in response to the pause request by withholding the read lock[[s]] on [[a]] the stored transaction freeze object that identifies a respective atomic transaction;

receive a resume request; and

resume the transaction manager in response to the resume request by granting the read lock[[s]] on the stored transaction freeze object that identifies the respective atomic transaction.

Allowable Subject Matter

- 2. Claims 1, 3-11, 13-58 are allowed. (Renumbered as 1-56)
- 3. The following is an examiner's statement of reasons for allowance: .
- 4. In view of applicant's arguments and amendments, the obviousness-type double patenting has been withdrawn.

Regarding independent claims 1, 10, 11 and 20, the examiner finds applicant's argument presented in the Appeal Brief dated 10/28/2009 persuasive. The rejections to claims 1, 10, 11 and 20 are withdrawn.

Independent claims 21, 30, 39 and 48 have been amended in this Examiner

Amendment. These claims, as amended, overcome the prior art of record. Thus, prior

art of record neither renders obvious nor anticipates the combination of claimed

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elements in light of the specification. After a further search and a thorough examination of the present application and in light of the prior art made of record, independent claims 1, 10, 11, 20, 21, 30, 39, and 48 are allowed. Dependent claims are allowed at least by virtue of their dependency from claim 1, 10, 11, 20, 21, 30, 39, and 48.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh B. Pham whose telephone number is (571) 272-4116. The examiner can normally be reached on Monday through Friday 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (571) 272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Khanh B. Pham/ Primary Examiner Art Unit 2166

January 27, 2010